

MONTHLY REPORT
INSTALLATION AND MAINTENANCE BRANCH
ENGINEERING STAFF

1 AUGUST - 30 AUGUST 1962

1. The program for replacing SIGTOTS with the new HW-19A configuration is now complete in the Langley Signal Center. A total of eight of these units are now in operation.

25X1A 2. During this reporting period, the installation/"marriage" of an HW-19A was affected at the [REDACTED]. Everything went very smoothly, having fulfilled the requirement in one day.

3. A new schedule for the Wire Maintenance Section at Langley has been initiated during this reporting period. Generally, it reflects a senior technician as supervisor on each of the three watches. This change has afforded closer supervision of both personnel and work assignments on all watches, and an increased efficiency has definitely been noticed.

4. The Langley/[REDACTED] link has been "cleaned up." The majority of the troubles we have lived with have been due to faulty Bell System equipment [REDACTED]. This equipment has been replaced and Agency owned equipment has been realigned. Other than routine troubles, no major outages have occurred since this remedial action was taken.

25X1A6b

25X1A6d

25X1A9a

[REDACTED]
Chief, Installation and
Maintenance Branch, OC-E

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GROUP 1
Excluded from automatic
downgrading and
declassification

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BRANCH SUPPLY SECTION

- A. The total expenditures for Fiscal Year 1963 as of 22 August 1962 are \$43,092.50.
- B. Eliminated all control cards on KL-7 spares on which no action had been taken for the past five years. Eliminated 95% of the cards.
- C. Cryptographic Material - Semi-Annual Inventory not completed. We are awaiting the return of hand receipts and confirming physical inventories.
- D. Field Requests - As of 22 August 1962 a total of sixty-nine (69) field requests consisting of five hundred and thirty-one (531) line items have been processed.

ELECTRONIC MAINTENANCE SECTION

A. Microwave

The Microwave System [REDACTED] and the associated landlines 41GC490 and 41GC491 have caused many intermittent type problems during this reporting period. At [REDACTED] some of the problems were isolated to the Telephone Company 43A carrier system. Two filters were changed to provide greater tone separation of the 41GC491 channel. New style arc suppressors were installed in the Northern Keying Relay Circuits to reduce distortion.

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B. KY-1

The circuit from OCI Watch Office to the White House and the circuit from ORR (Langley) to 1019 Alcott Hall were tested and activated during this reporting period.

C. KY-5

The KY-5 is in daily operation on a "phone to phone" basis. The Kellogg switchboard is not in use due to the lack of modification instructions from NSA.

D. Very-High-Frequency

Normal coverage was provided during the month of August.

REHAB. SHOP

- A. Fabrication of a tape factory [REDACTED] was completed and shipped to the field.

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B. Two HW-19A configurations were fabricated, tested and delivered to the Packing and Crating Section for shipment to the field to fulfill [REDACTED] requirements.

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25X1A

C. One half-duplex HW-19A configuration was fabricated for installation at the [REDACTED] Messrs. [REDACTED] affected this installation with no problems encountered.

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D. The equipment for one full-duplex HW-19A installation has been pre-wired and tested to satisfy the [REDACTED] requirement. The installation will be made upon receipt of the new style HW-19A rack.

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E. The HW-19A equipment for the Quarters Eye Logistics network installation has been pre-wired for use with the Bell System TWX machines. The installation will be made upon receipt of the new style HW-19A racks.

F. Processed 2 incoming vouchers totaling 103 items.
Processed 17 outgoing vouchers totaling 75 items.

G. Mechanical Maintenance Section - Routine

WIRE MAINTENANCE SECTION

A. Section Activities

1. Two Model-28 ASR's have been rewired in accordance with HW-19A standards for two half-duplex circuits to Logistics, Quarters Eye. The HW-19A rack was wired and will be installed as position six in the Washington-Terminal outgoing section (Langley).

2. The Replacement Program for changing Sigtot to HW-19A operation continues this month with the remaining two HW-19 racks completed. The ASR equipment will be rewired and converted to single shaft operation.

3. A storel Model-55B was repaired and returned from [REDACTED] and installed in the Control Console. One test pattern distortion generator was shipped [REDACTED] for repair.

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4. Mr. [REDACTED] received one week of instructions on the HL-6 at [REDACTED] laboratory.

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5. Variable speed kits were installed on two Model-28 KSR's roll-arounds. This equipment is used to set up the KW-26 circuits. This versatility from 60 W.P.M. to 100 W.P.M. allowed the removal of one KSR unit.

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6. A test panel was installed on the rear of the Control Console to test the circuit selection steppers. A total of twenty (20) test points were installed, ten (10) for Unclassified, and ten (10) for Classified circuits.

7. The circuit selection panels, both Classified and Unclassified, were checked out with respect to the Console Model-28 KSR's, the test pattern generator, and the distortion analyzer on all send and receive circuits.

8. Seven Series governed motors on Model-28 KSR equipment were replaced with synchronous type [REDACTED]. This replacement will reduce maintenance considerably.

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9. Two Model-28 KTR's were installed [REDACTED] to facilitate the maintenance of the microwave system. One unit was installed in the Radio Control room and one in the Microwave Building.

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B. Emergency Power

1. 200 KW Generator

Both diesels were run under load for a period of thirteen hours. Daily, weekly and monthly routine maintenance was completed totaling one hundred and forty-five (145) man hours.

2. 30 KW Generator

a. This unit ran a total of fifteen hours under load. A total of 80 man hours was expended on routine maintenance and repair.

b. No major or minor repairs required during this reporting period.

C. Trouble Reports

A total of three hundred and ninety-eight (398) troubles were reported and corrected from the following areas:

Langley Relay	-	234
Langley SSCB	-	111
Langley [REDACTED]	-	20
Langley [REDACTED]	-	2
1717 "H" Street	-	7
Outside Area	-	24

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